Amendments to the Claims:

- 1 1. (Cancelled)
- 1 2. (Currently amended) A housing jacket according to claim 15 [[4]], characterised in
- 2 that the coating thickness is between 10 μm and 50 μm.
- 3. (Currently amended) A housing jacket according to claim 15 [[4]], characterised by
- 2 the use of a dipping varnish with a basis of epoxyaminourethane deposited by a
- 3 cathophoretic process.
- 1 4. (Currently amended) A housing jacket according to claim 15 [[4]], characterised by
- 2 the manufacture of the jacket body from aluminium.
- 1 5. (Cancelled)
- 1 6. (Cancelled)
- 1 7. (Currently amended) A housing jacket according to claim 15 [[6]], characterised in
- 2 that the housing jacket end faces (5a, 5b) comprise two end faces which are remote from
- 3 one another and/or parallel to one another, the cooling channels (2) in the first (5a) of
- 4 which end freely accessibly on the exterior, and the cooling channels (2) in the second

- 5 (5b) of which end at a housing end wall (6) formed by casting and are thus closed in a
- 6 sealing-tight manner to the exterior.
- 1 8. (Currently amended) A housing jacket according to claim 15 [[6]], characterised in
- 2 that the second (5b) housing jacket end face (6) or end wall formed by casting abuts the
- 3 remaining housing jacket body in an integral manner.
- 9. (Previously presented) A housing jacket according to claim 7, characterised in that
- 2 the second (5b) housing end wall (6) formed by casting is provided inside with cavities
- 3 such that they form deflection chambers and/or transverse ducts (14), which
- 4 communicate with the cooling channels (2), extend transverse to a hypothetical motor
- 5 axis of rotation, and join together the channel ends and/or the deflection chambers.
- 1 10. (Cancelled)
- 1 11. (Currently amended) A housing jacket according to claim 15 [[10]], characterised
- 2 in that the bores or perforations have a female thread for the fixing of casting core
- 3 holding elements and/or for receiving screw-type seals (16).
- 1 12. (Previously presented) A housing jacket according to claim 11, characterised in that
- 2 the screw-type seals (16) are provided with sealing rings.
- 1 13. (Currently amended) A housing jacket according to claim 15 [[10]], characterised
- 2 in that the bores (15) or perforations are formed as inlets or outlets (7, 11) for coolant and
- 3 communicate with the cooling channels, optionally via a deflection chamber and/or
- 4 transverse duct (14).

- 1 14. (Currently amended) A housing jacket according to claim 15 [[5]], characterised in
- 2 that at least on a first housing jacket end face (5a) fixing elements (18) are provided in
- 3 order to mount a cover, an end shield or pressure ring (17).
- 1 15. (Currently amended) A coolable housing jacket (1) for an electric motor, which is
- 2 manufactured as a cast moulded part, is formed for receiving a concentric internal
- 3 rotor/stator arrangement (23) together with windings and winding overhang (24) with a
- 4 through-passage (3) that is symmetrical, concentric and/or coaxial with respect to a
- 5 hypothetical motor axis of rotation, and which is penetrated by one or more cooling
- 6 channels (2, 2a-h) to form a coolant circuit, characterised by
- (a) a coating on the jacket inner faces including the channel internal walls via a
 cathodic dip-varnishing process and
- 9 (b) the housing jacket being an integral, one piece casting within which are the

cooling channels (2) and transverse ducts (14) connecting the ends of cooling

- channels of adjacent quadrants wherein the cooling channels (2) end with
- 12 apertures freely accessible on the outside opening onto at least a first (5a) of
- 13 plural housing jacket end faces (5a, 5b), and wherein in a second (5b) of the
- housing jacket end faces (5a, 5b) the cooling channels (2) end at a housing wall
- 15 formed by the one piece casting and are thus closed in a sealing-tight manner with
- 16 respect to the outside and wherein the housing jacket end face (6) formed by
- 17 <u>casting and sealing the cooling channels (2) has in its cast wall one or more bores</u>
- 18 (15) or perforations.

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